$$D_{1000\text{-}1} = \sum_{i=1}^{1000} \left(19.99 \cdot 0.01 + 20.0 \cdot 0.01 + \ldots + v_{\mathrm{ref},1000-1} \cdot \Delta t_{1000-1} \right) = 1367\,\mathrm{m}$$